

**Abstract of the Disclosure**

The identification of compounds, strigolactones, having the ability to stimulate the growth and/or development of arbuscular mycorrhizal fungi (AM fungi). Such compounds are, for example, the natural strigolactones strigol, alectrol, sorgolactone, orobanchol, or their synthetic analogs GR7, GR24, Nijmegen-1, demethylsorgolactone. New ways of developing an agriculture that is more respectful of the environment, and permits the implementation, on a small or large scale, of advanced mycorrhization techniques aimed at optimizing the production of fungic inoculum, the use of AM fungi in soils or cultivation substrates, and intensifying the symbiotic interaction between these microorganisms and cultivated plants.